

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2000144344  
 PUBLICATION DATE : 26-05-00

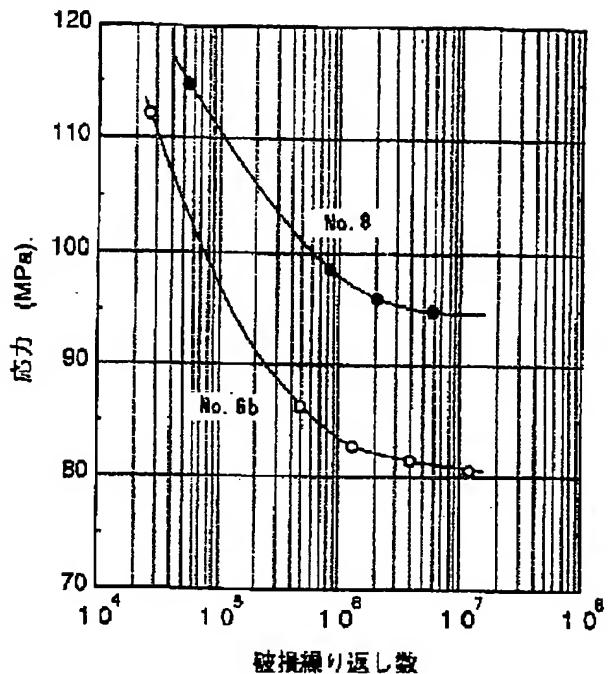
APPLICATION DATE : 22-06-95  
 APPLICATION NUMBER : 11361374

APPLICANT : KAWASAKI STEEL CORP;

INVENTOR : YAMATO KOJI;

INT.CL. : C22C 38/00 C22C 38/32 C22C 38/34

TITLE : FERRITIC STAINLESS HOT ROLLED  
 STEEL SHEET EXCELLENT IN  
 SURFACE ROUGHENING  
 RESISTANCE AFTER FORMING AND  
 HIGH TEMPERATURE FATIGUE  
 CHARACTERISTIC



ABSTRACT : PROBLEM TO BE SOLVED: To produce a ferritic stainless hot rolled steel sheet good in surface roughening resistance after forming and high temp. fatigue characteristics and moreover free from deterioration in forming workability.

SOLUTION: This steel sheet has a componential compsn. contg., by weight,  $\leq 0.03\%$  C,  $\leq 2.0\%$  Si,  $\leq 0.8\%$  Mn,  $\leq 0.03\%$  S, 6 to 25% Cr,  $\leq 0.03\%$  N,  $\leq 0.3\%$  Al,  $\leq 0.4\%$  Ti, 0.02 to 0.4% V, 0.0002 to 0.0050% B and  $\leq 0.5\%$  Nb so as to satisfy  $Ti/48 > N/14$ ,  $Ti/48 + Nb/92 > N/14 + C/12$  and  $V/B > 10$ , and the balance Fe with inevitable impurities.

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